

# **Sinclair and Dyes Inlets Fecal Coliform TMDL Community Advisory Committee October 26, 2004**



# Objectives

- **Review Water Cleanup Plans (TMDLs)**
- **Explore Uses of Sinclair & Dyes Models**
- **Review Schedule and Role of CAC**

# Water Cleanup Plan - Process

- **Historical data – 303(d) List**
- **Ecology proposes project**
- **Technical study – bacteria**
- **Strategy to clean up pollution**
- **Detailed plan with public involvement**
- **Cleanup actions**
- **Monitoring**

# Uses of the Technical Study – PSNS Models, Report

- **Current conditions –**
  - Land uses
  - Hydrology - stream flow & stormwater discharge – marine circulation & distribution
  - Freshwater & marine quality
- **Future – how will hydrology and water quality be different?**

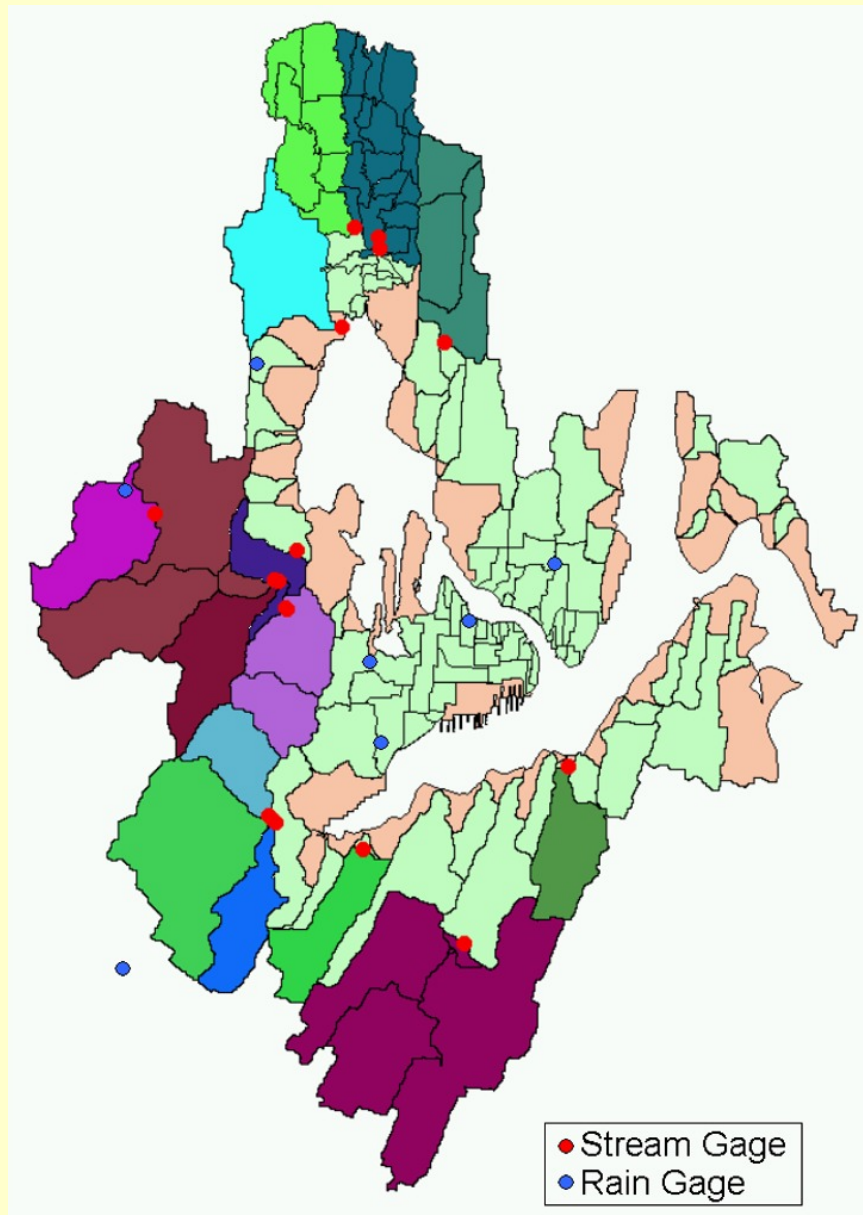
# How the Watershed & Marine Models Can Be Used

- **Kitsap County is developing rapidly – expect 22% population increase in 10 years**
- **Impervious surface will increase**
- **Stormwater discharge will increase**
- **Stormwater is an efficient conveyor of fecals to streams and marine waters**
- **How will Sinclair and Dyes marine water quality be affected?**

# Kitsap County Population

Year	Population	% Increase
1990	190,000	
2000	232,000	2.7
2012	292,000	2.2
[2020]	[343,000]	2.2

**Catchment  
areas  
represented  
within the  
HSPF  
watershed  
model for  
Sinclair and  
Dyes Inlets.**



# **“Sensitivity Analysis”**

- What is the model sensitive to?**
- Test effect on marine water quality of:**
  - Increase stormflows by 10%**
  - Increase stream concentration of bacteria in wet season\***
- Can the marine system “tolerate” some increases and still keep shellfish beds open?**



# Applying Model Results

- **Subwatersheds will grow & impact differently:**
  - **Soils, hydrology, future land uses**
- **Some will generate more bacteria, runoff**
- **Can zoning/planning be adjusted?**

# Smart Growth

*(Implementing what we learn)*

- **Choices for citizens, building industry, planning departments**
- **Look at zoning re: soils, hydrology**
- **Economic incentives**
- **Water conservation and reuse**
- **Keep the forest!**

# Next Steps

**Jan – April 2005 Model Runs**

**Evaluate shellfish/water quality impacts**

**June – July 2005**

**Ecology – set Load and Wasteload allocations (pollutant reductions)**

**Aug – Sept 2005**

**Review allocations/draft report**

**Develop implementation strategy**

**March 2006**

**Public meeting to review draft TMDL**

**June 2006 –Submit final to EPA**

# Opportunities for Community Advisory Committee

- **Participate in developing strategy for implementation (meetings in 2005)**
- **Provide citizen voice in TMDL process & local planning**
- **Keep decision makers aware of water conservation/forest conservation issues**



***Questions?  
Comments!  
Stay  
involved!***

